

## Second Distribution of Berkeley Software for UNIX†

A new package of software for UNIX is available from the Computer Science Division of the University of California at Berkeley. This package includes the instructional Pascal system, the editor *ex*, and other software (some of which is described below). All software except the editor will run without separate I/D space, and on both version 6 and 7 systems.

Source code, binaries and machine readable versions of all documentation are included with the tape, which is a standard *tp* format, 800BPI magnetic tape. We will supply a 2400 foot magnetic tape on which the software will be written.~ If you have a version 7 UNIX system, you can request that the tape be written in *tar* format; PWB/UNIX users may request *cpio* format.

To receive the tape fill out the attached agreement and send it with

1. A check (purchase orders are not acceptable) for \$60 US.‡
2. A copy of your UNIX license agreement. #
3. A clear indication of your mailing address.
4. A filled in copy of the agreement (which follows).

to

Berkeley Software Distribution for UNIX  
c/o William N. Joy  
Computer Science Division, Department of EECS  
Evans Hall  
University of California, Berkeley  
Berkeley, California 94720

Included with the tape are copies of all documentation for the programs on the tape. If you wish additional copies of the documentation, send \$15 for each additional copy. (You can also get just the documentation, in this case you need only send \$15 and a copy of your UNIX license). Questions about this tape can be directed to William Joy at the address above or at (415) 642-4948. Messages can be left at (415) 642-1024.

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†UNIX is a trademark of Bell Laboratories.

~RK cartridge distribution of the software is not available.

‡We had hoped to be able to distribute this new tape without charge to installations which received the first distribution. This has not proved possible because costs of reproduction have been too high.

#If you have a version 6 UNIX license and wish to receive the *-me* macro package and the modified version of the standard I/O library, then you must have (and include a copy of) a license for the version 7 phototypesetter package.

## Software Agreement

Name of Receiving Institution:

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1. We have received from the University of California, Computer Science Division, Department of Electrical Engineering and Computer Science, the Second Berkeley Software Tape containing the Pascal system and the "ex" editor (version 2.0) and other software, for a one time handling charge of \$60.
2. We declare that we will use this software for in-house applications, research and development only.
3. We commit ourselves not to pass the specified software and documentation or parts of it to other parties outside our establishment.
4. We accept that the University of California has no commitments concerning software service or debugging.
5. We commit ourselves to inform the University of California about faults detected in the software.
6. We commit ourselves to inform the University of California about improvements we make to the received software.
7. We commit ourselves to name the University of California as a reference in publications and descriptions if the received software or documentation is an essential part of a basic idea of the work described in the paper.

I accept the above conditions.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Position: \_\_\_\_\_



## **New Berkeley Software**

In addition to the Pascal system, the following programs are on the distribution tape.

### **A new version of the "ex" editor**

This new version improves the terminal driving capabilities of the editor to provide screen editing facilities using intelligent terminals. All terminal capabilities are described in a file so that the editor can drive new terminals after their descriptions are edited into the file. Padding and other requirements of intelligent terminals are dealt with in the editor. The editor is particularly designed so as to be usable as a screen editor on low speed dialup lines with intelligent and unintelligent terminals. The size of the editing window can be made small, and will expand as you work. This prevents long delays, e.g. after a search when the window will be redrawn in its smaller size.

The screen editing facilities of the editor have been extended so that it is possible to perform editing completely within "visual" or "open" modes. Open mode has been extended so that it works on hardcopy terminals.

Other new facilities include:

- A facility for continuous text input with the editor breaking over new lines automatically at spaces near the right margin.
- The capability to filter parts of the editor buffer through specified commands, and to read/write parts of the buffer from/to command.
- Text registers into which lines may be placed and carried over when editing new files.
- A "tags" facility for editing large programs which are broken into many files. The editor can be told the name of a tag (usually a function name) and will then switch to the file where that function resides and position itself at that function.

While "ex" edits only one file at a time, it remembers the line position in the previous file, so that it is possible to easily switch back and forth between two files.

### **A new shell "csh"**

This shell incorporates good features of the earlier shells, previous Berkeley shells and the version 7 shell. It also has a history mechanism (similar to that of INTERLISP) so that previous commands can be repeated and/or corrected.

### **A new macro package for nroff/troff: -me**

This macro package is easy to use and especially easy to adapt to different formats. It works both with nroff and troff and provides a large number of hooks for special requirements. A beginners introduction and a reference manual are also available.†

### **A new "Mail" program**

This new mail program uses "mail" to do the actual mailing and concentrates on providing a simple and friendly environment for processing large amounts of mail.

### **The Berkeley Network**

Provides a facility for file transfer between machines and remote execution of commands, in a batch request fashion. Used at Berkeley to connect a network of seven UNIX systems. Can be run using terminal ports to connect machines.

### **Modifications to the stdio package to allow simultaneous read/write.†**

Essential if many programs are to be written using *stdio*.

### **Documents Supplied with the Tape:**

- Mail Reference Manual
- An Introduction to the C Shell
- Writing Papers with Nroff Using -me
- Me Reference Manual
- Edit: A Tutorial
- Ex Reference Manual - Version 2.0
- Ex Differences: Version 1.1 To 2.0
- Ex/Edit Command Summary - Version 2.0
- An Introduction to The Berkeley Network
- Network System Manual
- Berkeley Pascal User's Manual
- Berkeley Pascal Pxp Implementation Notes
- Berkeley Pascal Px Implementation Notes
- Vi Quick Reference Card
- An Introduction to Display Editing With Vi

Manual sections for all programs on the tape are also provided.

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†If you have a version 6 UNIX license and wish to get the -me macro package and the "stdio" modifications, you must include a copy of your license for the version 7 phototypesetter package;